



✗ Compact design

✗ Low insertion loss

✗ Operating wavelength from 1260 nm to 1650 nm

✗ 25 Year system warranty

✗ CIBSE TM65 Embodied Carbon: 0.125 kg CO₂e

Product Overview

The Enbeam Planar Lightwave Circuit (PLC) Splitter is fabricated using silica optical waveguide technology. Its compact size, high reliability, wide operating wavelength and good channel-to-channel uniformity is widely used in Passive Optical Networks (PON).

Excel provides whole series of 1xN splitter products that are tailored for specific applications. All products meet GR-1209-CORE and GR-1221-CORE requirements.

Product Specifications

Feature	Values
Material	Metal (housing)

Additional specifications

Features	All	1x4	1x8	1x16	1x32
Operating wavelength	1260 to 1650 nm				
Fibre type	G657A2				
Temperature stability (dB)	(-40 °C to 85 °C)	≤0.4	≤0.4	≤0.5	≤0.5
Storage temperature	-40 °C to 85 °C				
Return loss	≥55 dB				
Directivity	>55 dB				

Wavelength dependent Loss (dB)	0.3	0.3	0.3	0.5
Insertion loss P/S Grade (dB)	7.2/7.4	10.3/10.7	13.5/13.7	16.5/16.9
Maximum power handling	500 mW			

Additional specifications

Features	1x4	1x8	1x16	1x32
Loss Uniformity (dB)	0.6	0.8	1	1.5
Polarization Dependent Loss (dB)	0.1	0.1	0.2	0.25

Standards

Applicable standard	Detail
RoHS-II/-III (2011/65/EU & 2015/863): 2023	Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III).
IEC 61754-1:2013	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 1: General and guidance
ISO/IEC 11801-1:2017	Information technology - Generic cabling for customer premises: Part 1 General Requirements
EN 50173-1:2018	Information technology. Generic cabling systems - General requirements
WFD: 2023	Compliant to Waste Framework Directive
SCIP: 2023	Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)
POPs (EU) No 2019/1021	EU Regulation for the restriction of Persistent Organic Pollutants.

Part Number Table

Part Number	Description
208-901	Excel Enbeam 1x 4 Open-Ended PLC Splitter
208-902	Excel Enbeam 1x 8 Open-Ended PLC Splitter
208-903	Excel Enbeam 1x 16 Open-Ended PLC Splitter
208-904	Excel Enbeam 1x 32 Open-Ended PLC Splitter

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

Contact us at sales@excel-networking.com

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